

FIG.1

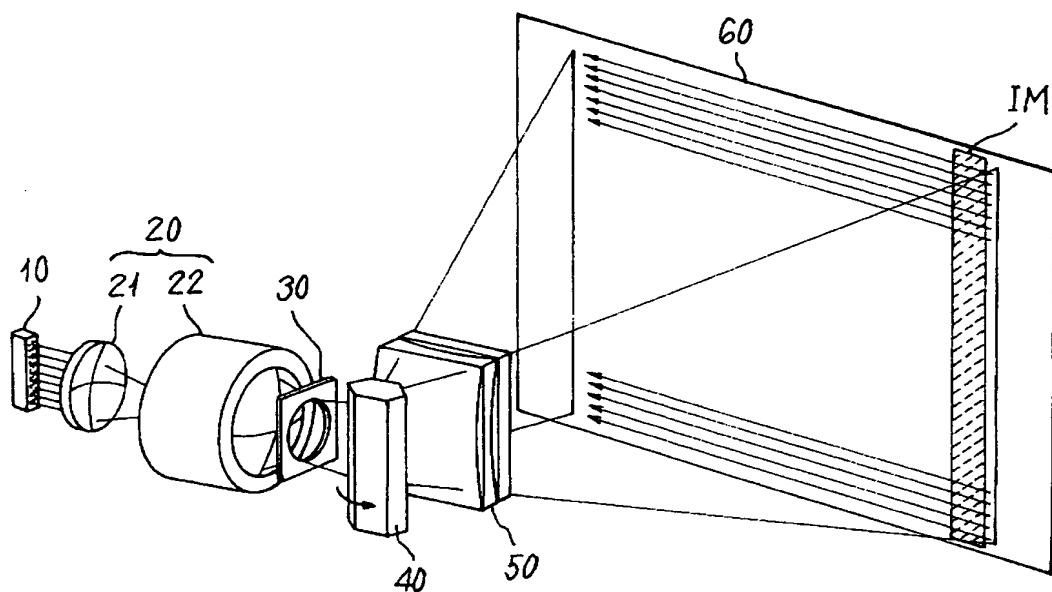


FIG.2

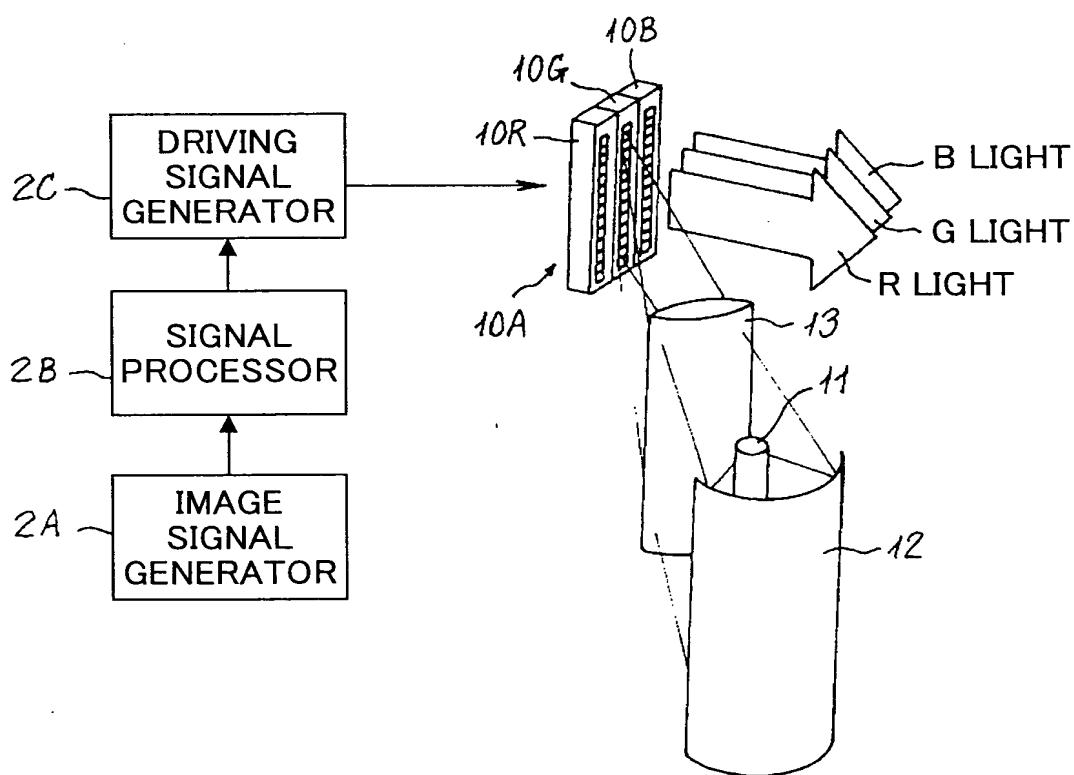


FIG.3A

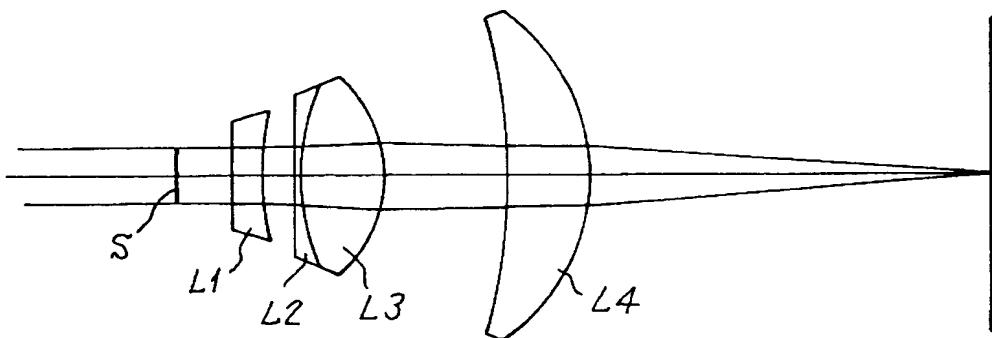


FIG.3B

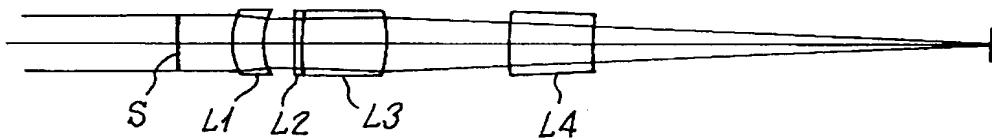
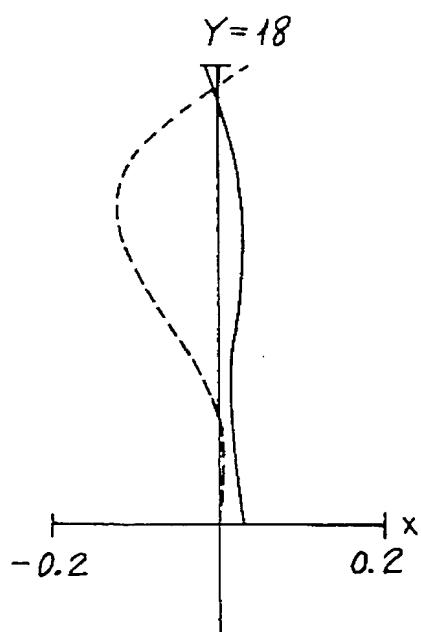
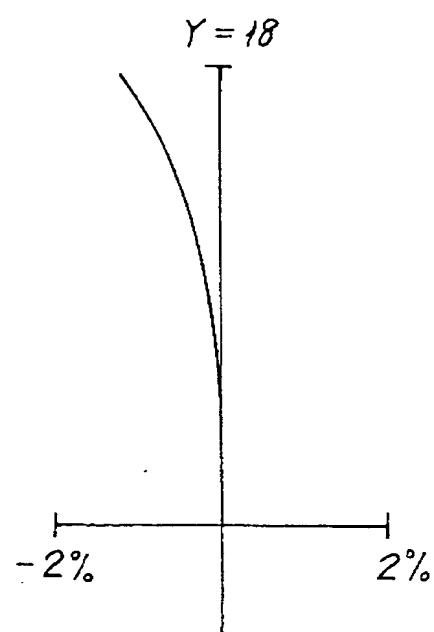


FIG.4A



CURVATURE OF FIELD

FIG.4B



DISTORTION

FIG.5

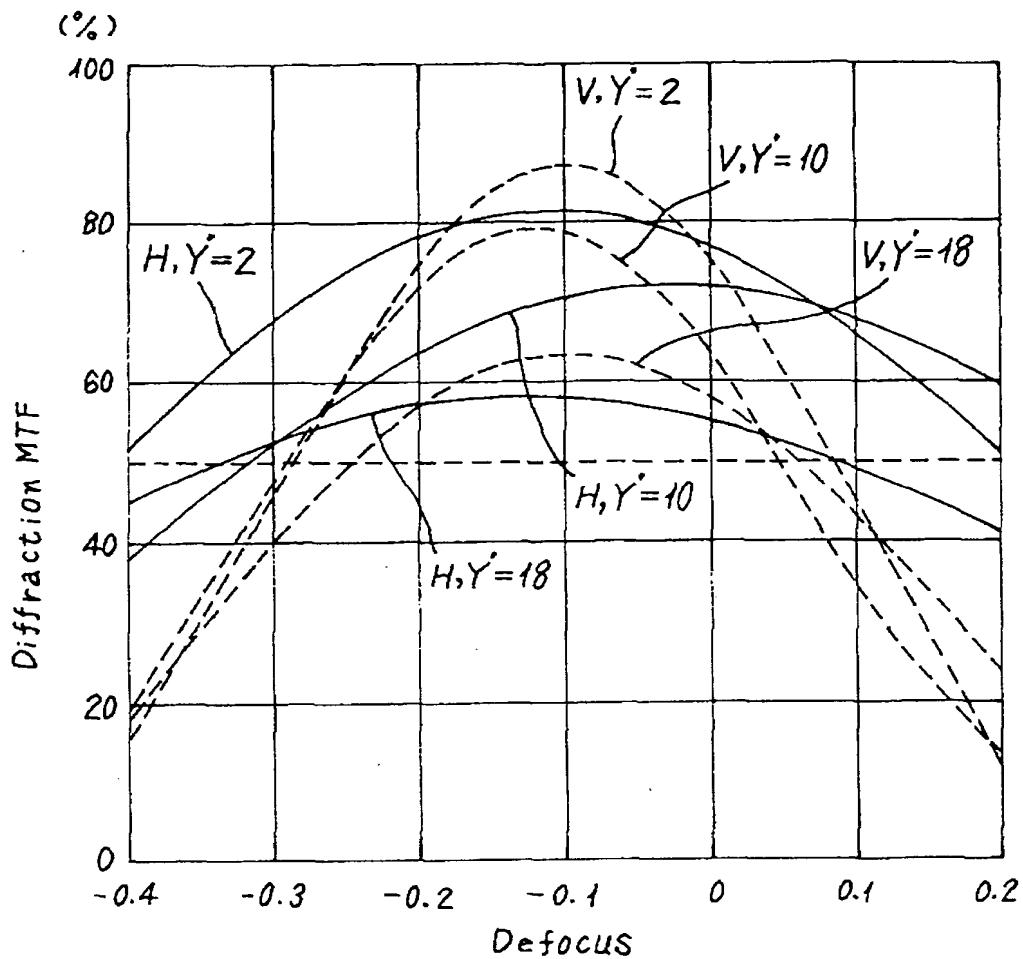


FIG.6

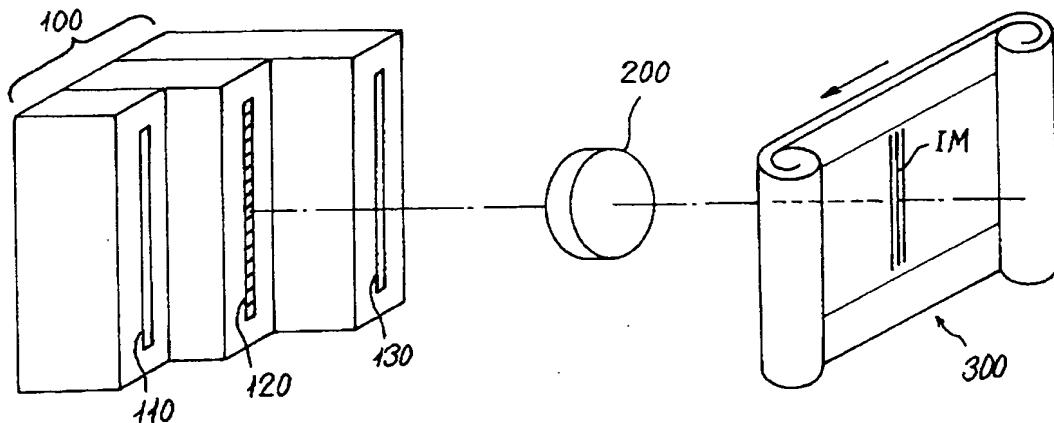


FIG. 7

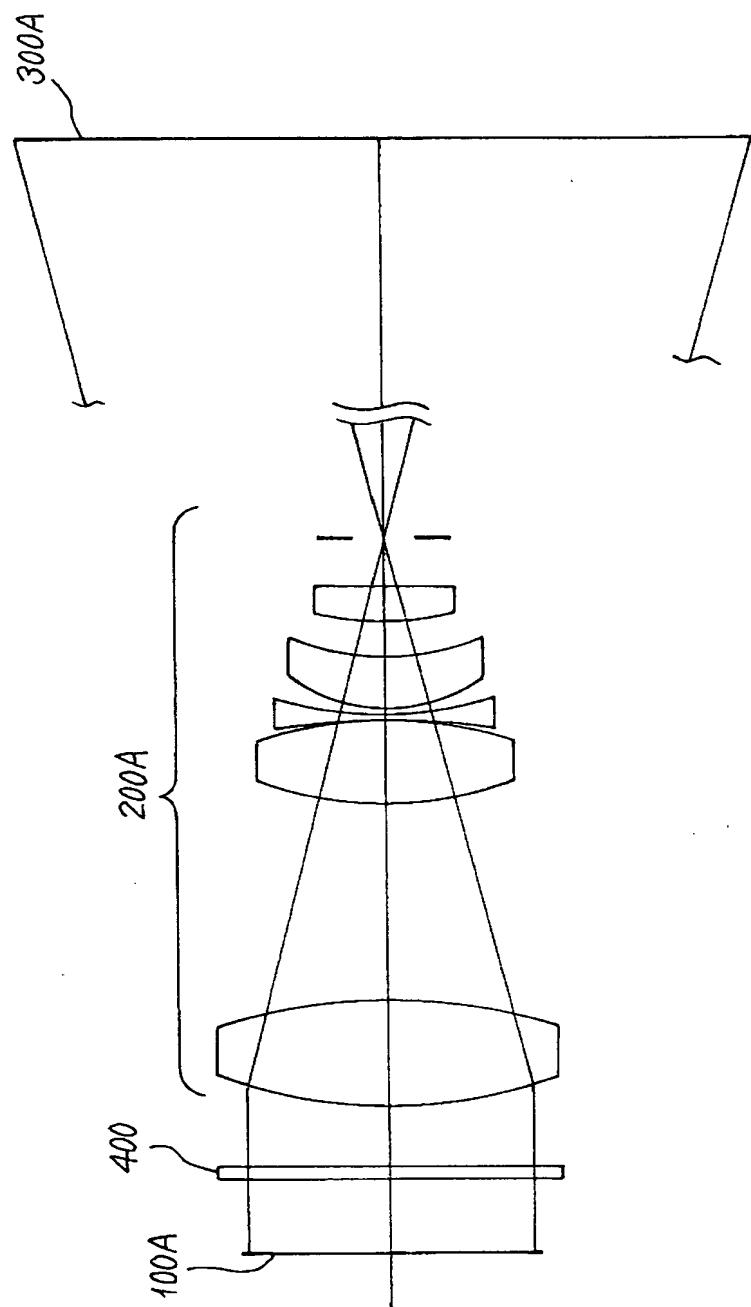


FIG.8

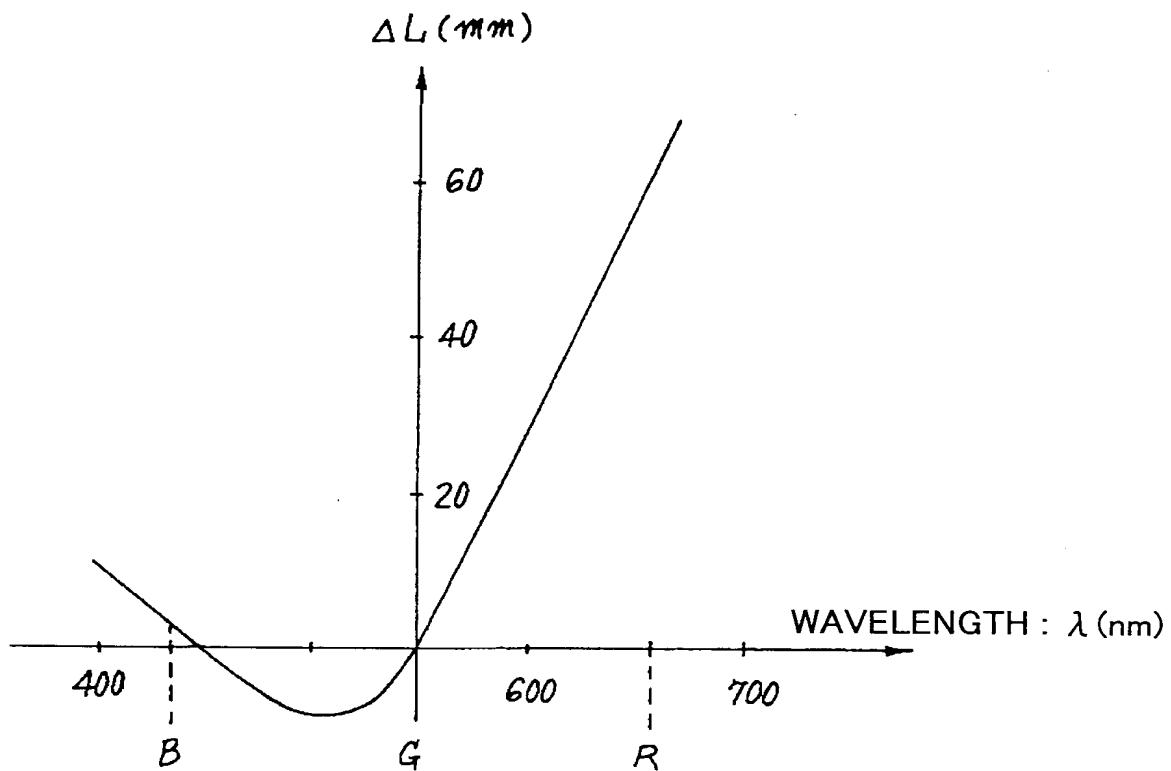


FIG.9A

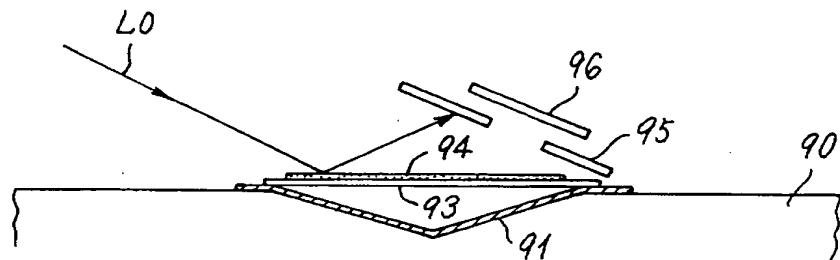


FIG.9B

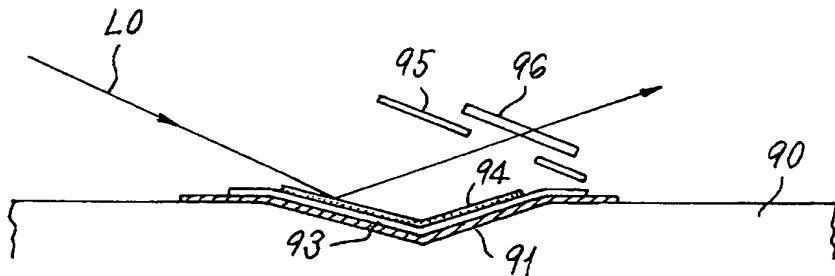


FIG.10

i	DESCRIPTION OF SURFACE	Rv	Rh	d	Nd
1	STOPPER	0.0	0.0	5.38	1.0
2	XZ NON-ARCUATE SURFACE 105.08		8.171	3.12	1.53
3	WT SURFACE	28.28	6.62	3.	1.0
4	SPHERICAL SURFACE	502.78	502.78	0.7	1.83511
5	SPHERICAL SURFACE	22.47	22.47	8.47	1.48749
6	SPHERICAL SURFACE	-14.74	-14.74	11.83	1.0
7	WT SURFACE	-67.45	29.20	8.3	1.53046
8	XZ NON-ARCUATE SURFACE -23.28		25.58	30.1	1.0
9	IMAGE SURFACE (SURFACE ARRANGED WITH MODULATOR PARTS)				1.0

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FIG. 11

SURFACE COEFFICIENT	i	2ND ORDER	4TH ORDER	6TH ORDER	8TH ORDER	10TH ORDER
2	a	-5. 88E-05	-7. 72E-07	-9. 58E-08	2. 20E-09	
	b	-1. 22E-03	-5. 31E-05	4. 69E-06	-1. 13E-07	
	d	-3. 36E-05	1. 21E-05	-1. 08E-06	2. 76E-08	
	e	3. 82E-06	-1. 46E-06	1. 30E-07	-3. 29E-09	
			-4. 64E-06	-7. 32E-07	-2. 58E-08	4. 08E-10
3	a	-1. 65E-03	-8. 52E-08	1. 43E-07	-1. 61E-10	
	b	-8. 02E-06	6. 12E-08	-1. 57E-08	4. 08E-10	
8	a	-1. 25E-04	-2. 08E-07	7. 22E-10	6. 58E-13	
	b	-7. 30E-06	2. 20E-08	-2. 90E-11	-2. 10E-14	
		-2. 09E-07	-2. 98E-10	1. 87E-12		
9	a	-1. 17E-04	1. 01E-07	-3. 60E-10	3. 65E-13	
	b	-5. 69E-06	-3. 92E-08	1. 62E-10	-2. 10E-13	
e		2. 50E-06				

FIG.12

SURFACE NO.	i	R	D	Nd	νd
1		40. 8	11. 6	1. 58913	61. 3
2		-54. 0	21. 1	1. 0	
3		33. 1	8. 6	1. 6968	55. 5
4		-44. 5	0. 2	1. 0	
5		-66. 5	0. 7	1. 83634	33. 7
6		32. 3	0. 6	1. 0	
7		15. 47	5. 4	1. 53046	55. 8
8		20. 6	4. 0	1. 0	
9		30. 4	3. 8	1. 53046	55. 8
10		-731. 0		1. 0	